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## ABSTRACT

fabrication Α structure and а method for metallurgical connections between solder bumps and contact pads positioned on integrated circuits (IC) having copper interconnecting metallization protected by an overcoat. of structure comprises a portion the copper metallization exposed by a window in the overcoat, where the exposed copper has a chemically and plasma cleaned A copper layer is directly positioned on the clean copper metallization, and patterned; the resulting structure has an electrical (and metal conductivity about equal to the conductivity of pure The copper layer overlaps the perimeter of the overcoat window and a copper stud is positioned on said copper layer. Finally, one of the solder bumps is bonded to the copper stud.